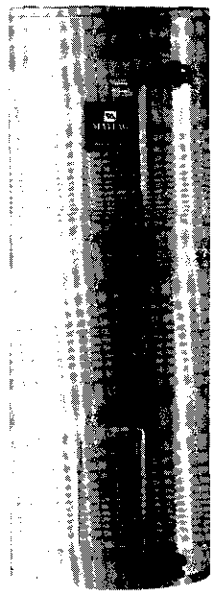
MAYTAG®

Series Ten

ELECTRIC WATER HEATER USER'S GUIDE



Model Numbers

HX302ERT
HX402ERS
HX402ERT
HX522ERS
HX522ERT
HX662ERT
HX822ERT

UL® LISTED

EFFICIENCY RATING CERTIFIED Gama

GAMA certification applies to all residential electric water heaters with capacities of 20 to 120 Gallons. Input rating of 12 Kw or less at a voltage no greater than 250 V.

FOR POTABLE WATER HEATING ONLY

NOT SUITABLE FOR SPACE HEATING

⚠ WARNING

READ THE GENERAL SAFETY SECTION BEGINNING ON INSIDE COVER AND THEN THIS ENTIRE MANUAL BEFORE INSTALLING OR OPERATING THIS WATER HEATER.

Caution:
Read and Follow All Safety Rules and Operating Instructions Before First Use of This Product.

Save this Manual for Future Reference.

Safety Instructions

⚠ WARNING

Improper installation, adjustment, alteration, service or maintenance can cause DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE. Refer to this manual for assistance consult your local utility or call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer for further information.

⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

⚠ WARNING

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

⚠ WARNING

INSULATING JACKETS: When installing an external water heater insulation jacket on an electric water heater:

- DO NOT cover the temperature-pressure relief valve.
- DO NOT put insulation over the access covers or any access areas.
- DO NOT cover or remove operating instructions, and safety related warning labels and materials affixed to the water heater.

⚠ WARNING

Do not use this appliance if any part of it has been under water. An electrical short or malfunction could occur. The water heater should be replaced.

⚠ WARNING

At the time of manufacture this water heater was provided with a combination temperature-pressures relief valve certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials, as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, and the latest edition of ANSI Z21.22 and the code requirements of ASME. If replaced, the valve must meet the requirements of local codes, but not less than a combination temperature and pressure relief valve certified as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22 by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials.

The valve must be marked with a maximum set pressure not to exceed the marked hydrostatic working pressure of the water heater (150 lbs./sq. in.) and a discharge capacity not less than the water heater input rate as shown on the model rating plate. (Electric heaters - watts divided by 1000 x 3415 equal BTU/Hr. rate.)

Your local jurisdictional authority, while mandating the use of a temperature-pressure relief valve complying with ANSI Z21.22 and ASME, may require a valve model different from the one furnished with the water heater. Compliance with such local requirements must be satisfied by the installer or end user of the water heater with a locally prescribed temperature-pressure relief valve installed in the designated opening in the water heater in place of the factory furnished valve.

For safe operation of the water heater, the relief valve must not be removed from it's designated opening or plugged.

The temperature-pressure relief valve must be installed directly into the fitting of the water heater designated for the relief valve. Position the valve downward and provide tubing so that any discharge will exit only within 6 inches above, or at any distance below the structural floor. Be certain that no contact is made with any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances. Excessive length, over 30 feet, or use of more than four elbows can cause restriction and reduce the discharge capacity of the valve.

No valve or other obstruction is to be placed between the relief valve and the tank. Do not connect tubing directly to discharge drain unless a 6″ air gap is provided. To prevent bodily injury, hazard to life, or property damage, the relief valve must be allowed to discharge water in quantities should circumstances demand. If the discharge pipe is not connected to a drain or other suitable means, the water flow may cause property damage.

The Discharge Pipe:

- Must not be smaller in size than the outlet pipe size of the valve, or have any reducing couplings or other restrictions.
- Must not be plugged or blocked.
- Must be of material listed for hot water distribution.
- Must be installed so as to allow complete drainage of both the temperature-pressure relief valve, and the discharge pipe.
- Must terminate at an adequate drain.
- Must not have any valve between the relief valve and tank.

Safety Instructions (cont'd)

⚠ WARNING

WATER HEATERS EQUIPPED FOR ONE VOLTAGE ONLY: This water heater is equipped for one type voltage only. Check the rating plate near the bottom access panel for the correct voltage. DO NOT use this water heater with any voltage other than the one shown on the model rating plate. Failure to use the correct voltage can cause problems which can result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE. If you have any questions or doubts consult your electric company.

⚠ CAUTION

WATER HEATERS EVENTUALLY LEAK: Installation of the water heater must be accomplished in such a manner that if the tank or any connections should leak, the flow of water will not cause damage to the structure. For this reason, it is not advisable to install the water heater in an attic or upper floor. When such locations cannot be avoided, a suitable drain pan should be installed under the water heater. Drain pans are available at your local hardware store. Such a drain pan must have a minimum diameter of at least 1¾ inches greater than the water heater diameter and must be piped to an adequate drain. Under no circumstances is the manufacturer or Maytag to be held liable for any water damage in connection with this water heater.

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Customer Information

Thank You for purchasing a Maytag water heater. Properly installed and maintained, it should give you years of trouble free service. It is strongly suggested that this new water heater be professionally installed, call a Maytag Service Specialist at 1-800-365-0024 for recommended installers.

Abbreviations Found In This Instruction Manual

U.L.- Underwriters Laboratories Inc., 333 Pfingsten Rd., Northbrook, IL 60062
National Electrical Code-This publication is available from your local government or public library or electric company or by writing to U.L. above.
ANSI-American National Standards Institute

- Read the "Safety Instructions" section, pages 2 and 3 of this manual first and then the entire manual carefully. If you don't follow the safety rules, the water heater will not operate properly. It could cause DEATH, SERIOUS BODILY INJURY AND/OR PROPERTY DAMAGE.
  This manual contains instructions for the installation, operation, and maintenance of this electric water heater. It also contains warnings throughout the manual that you must read and be aware of. All warnings and all instructions are essential to the proper operation of the water heater and your safety. Since we cannot put everything on the first few pages, READ THIS ENTIRE MANUAL BEFORE ATTEMPTING TO INSTALL OR OPERATE THE WATER HEATER.

- The installation must conform with the instructions in this manual; electric company rules; and Local Codes, or in the absence of Local Codes, with the latest edition of the National Electrical Code. This publication is available from your local government or public library or electric company or by writing Underwriters Laboratories Inc., 333 Pfingsten Road, Northbrook, IL 60062.

- If after reading this manual you have any questions or do not understand any portion of the instructions, call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer.

- Carefully plan the place where you are going to put the water heater. Correct electrical wiring and connections are very important in preventing death from possible electrical shock and fires.
  Examine the location to ensure the water heater complies with the "Locating the New Water Heater" section.

- For California installation this water heater must be braced, anchored, or strapped to avoid falling or moving during an earthquake. See instructions for correct installation procedures. Instructions may be obtained from the California office of the State Architect, 400 P Street, Sacramento, CA 95814.

- Massachusetts Code requires this water heater to be installed in accordance with Massachusetts 248-CMR 2.00: State Plumbing Code and 248-CMR 5.00.

Product Specifications

Model		HX302ERT	HX402ERS	HX402ERT	HX522ERS
Tank Capacity In Gallons		30	40	40	50
*Element Wattage at 240 Volt	Upper	5500	5500	5500	5500
	Lower	5500	5500	5500	5500
Recovery Rate In Gals Per Hr. @ 90°F Rise	Upper	25	25	25	25
	Lower	25	25	25	25
Diameter		19″	22″	19″	24″
Height		46″	47″	59½″	46¼″
Maximum Fuse or Circuit Breaker Size		30	30	30	30
**Minimum Wire Size (Gauge)		10	10	10	10

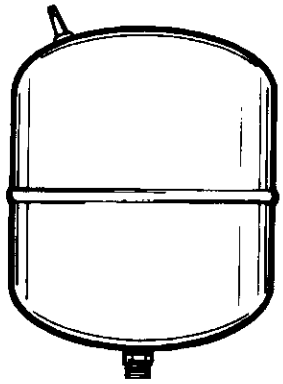
Model		HX522ERT	HX662ERT	HX822ERT
Tank Capacity In Gallons		50	66	80
*Element Wattage at 240 Volt	Upper	5500	5500	5500
	Lower	5500	5500	5500
Recovery Rate In Gals Per Hr. @ 90°F Rise	Upper	25	25	25
	Lower	25	25	25
Diameter		21″	23″	25″
Height		58″	60″	59¾″
Maximum Fuse or Circuit Breaker Size		30	30	30
**Minimum Wire Size (Gauge)		10	10	10

* Standard element wattages are shown. Other element wattages (up to the maximum shown) are available when specified.
** Wiring size based on standard 60°C copper wire. If distance from fuse box to water heater is more than 90 feet, refer to your local electrical code.

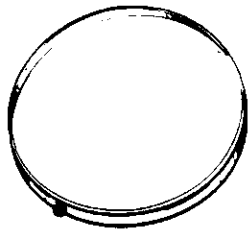
Accessories and Tools Needed

Accessories

To simplify the installation Maytag has available the installation parts shown below. You may or may not need all of these accessories depending on your type of installation. Call a Maytag Service Specialist at 1-800-365-0024 for an authorized installer.



EXPANSION TANKS FOR THERMAL EXPANSION CONDITIONS AVAILABLE IN 2 GALLON (PART NUMBER ETC2X) AND 5 GALLON (PART NUMBER ETC5X) CAPACITY



DRAIN PANS AVAILABLE IN 22" DIAMETER (PART NUMBER 9001609) FOR WATER HEATERS HAVING A DIAMETER 20" OR LESS, 24" DIAMETER (PART NUMBER 9002769) FOR WATER HEATERS HAVING A DIAMETER 22" OR LESS AND AVAILABLE IN 28" DIAMETER (PART NUMBER 9001608) FOR WATER HEATERS HAVING A DIAMETER 26.25" OR LESS

Tools

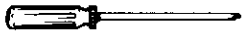
You may or may not need all of these tools, depending on your type of installation. These tools can be purchased at your local Maytag store.

- **Pipe Wrenches (2) 14"**
- **Screwdriver**
- **6 Foot Tape of Folding Rule**
- **Garden Hose**
- **Drill**
- **Pipe dope or Teflon Tape**

GARDEN HOSE

6 FOOT TAPE

SLOT-HEAD SCREW DRIVER

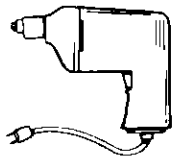


PHILLIPS SCREWDRIVER

PIPE WRENCH

PIPE DOPE (SQUEEZE TUBE)

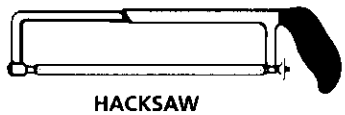
ROLL OF TEFLON TAPE (Use only on water connections)



DRILL

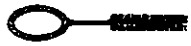
ADDITIONAL TOOLS NEEDED WHEN SWEAT SOLDERING

- **Tubing Cutters or Hacksaw**
- **Propane Torch**
- **Soft Solder**
- **Solder Flux**
- **Emery Cloth**
- **Wire Brushes**



HACKSAW

3/4" WIRE BRUSH



1/2" WIRE BRUSH

ROLL OF LEAD FREE SOFT SOLDER

PROPANE TORCH

ROLL OF EMERY CLOTH

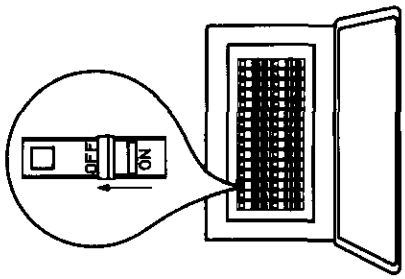
SOLDER FLUX

TUBING CUTTER

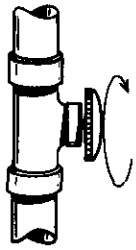
Instructions for Installation

Removing the Old Water Heater

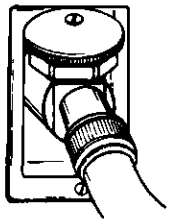
(1) Turn "OFF" electrical supply to the water heater.



(2) Turn "OFF" the water supply to the water heater at the water shutoff valve or water meter.



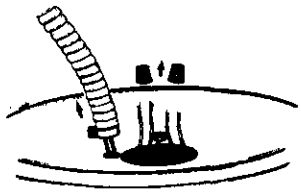
(3) Attach a hose to the water heater drain valve and put the other end in a floor drain or outdoors. Open the water heater drain valve. Open a nearby hot water faucet which will relieve pressure in the water heater and speed draining.

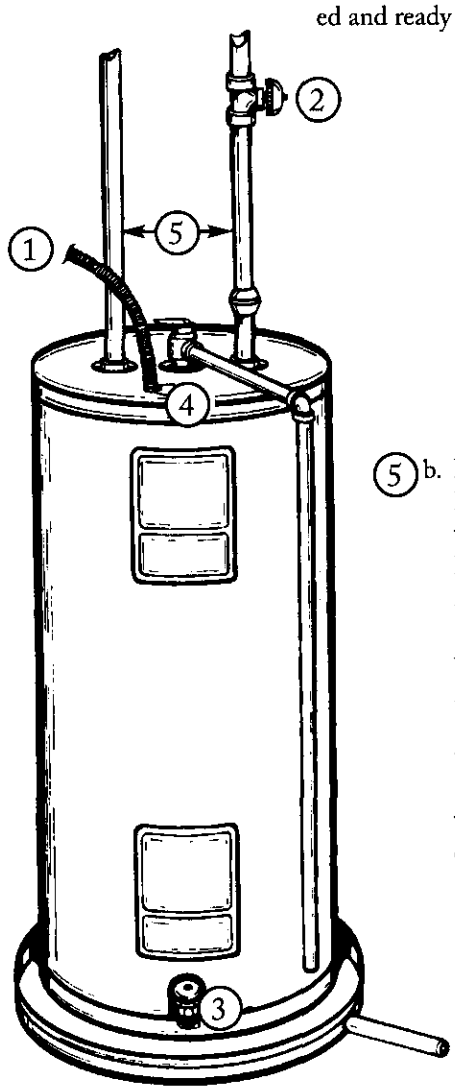


⚠ WARNING

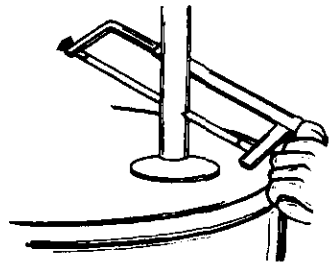
The water passing out of the drain valve may be extremely hot. To avoid being scalded, make sure all connections are tight and that the water flow is directed away from any person.

(4) Check again to make sure the electrical supply is turned "OFF" to the water heater. Then disconnect the electrical supply connection from the water heater junction box.

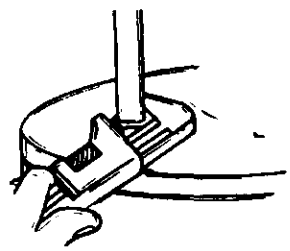




(5) a. If you have copper piping to the water heater, the two copper water pipes can be cut with a hacksaw approximately four inches away from where they connect to the water heater. This will avoid cutting off the pipes too short. Additional cuts can be made later if necessary. Disconnect the temperature-pressure relief valve drain line. When the water heater is drained, disconnect the hose from the drain valve. Close the drain valve. The water heater is now completely disconnected and ready to be removed.



(5) b. If you have galvanized pipe to the water heater, loosen the two galvanized pipes with a pipe wrench at the union in each line. Also disconnect the piping remaining to the water heater. These pieces should be saved since they may be needed when reconnecting the new water heater. Disconnect the temperature-pressure relief valve discharge pipe. When the water heater is drained, disconnect the hose from the drain valve. Close the drain valve. The water heater is now completely disconnected and ready to be removed.



⚠ CAUTION

Mineral buildup or sediment may have accumulated in the old water heater. This causes the water heater to be much heavier than normal and this residue, if spilled out, could cause staining.

Instructions for Installation (cont'd)

Locating The New Water Heater

You should carefully choose an indoor location for the new water heater, because the placement is a very important consideration for the safety of the occupants in the building and for the most economical use of the appliance. This water heater is not intended for outdoor installation.

Whether replacing an old water heater or putting the water heater in a new location, the following critical points must be observed.

1. The location selected should be indoors as close to and as centralized with the water piping system as possible. This water heater, as well as all water heaters, will eventually leak. Do not install without adequate drainage provisions where water flow will cause damage.

⚠CAUTION

WATER HEATERS EVENTUALLY LEAK: Installation of the water heater must be accomplished in such a manner that if the tank or any connections should leak, the flow of water will not cause damage to the structure. For this reason, it is not advisable to install the water heater in an attic or upper floor. When such locations cannot be avoided, a suitable drain pan should be installed under the water heater. Drain pans are available at your local hardware store. Such a drain pan must have a minimum diameter of at least 1¾ inches greater than the water heater diameter and must be piped to an adequate drain. Under no circumstances is the manufacturer or Maytag to be held liable for any water damage in connection with this water heater.

⚠CAUTION

INSTALLATION IN RESIDENTIAL GARAGES: The water heater must be located and/or protected so it is not subject to physical damage by a moving vehicle.

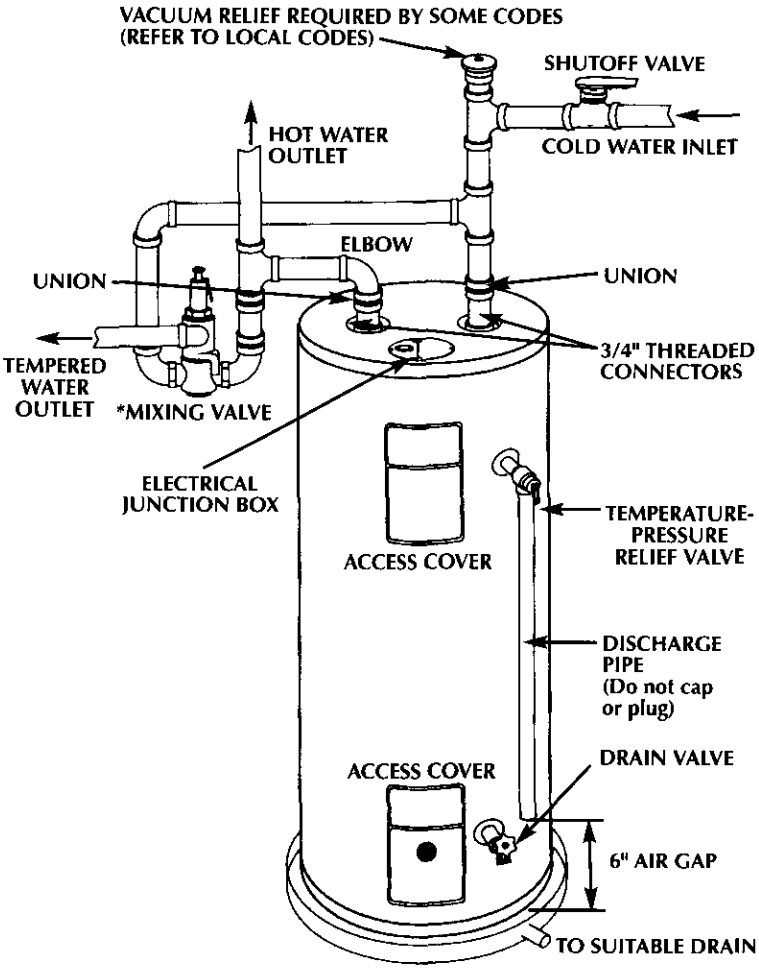
2. The location selection must provide adequate clearances for servicing and proper operation of the water heater.

Typical Installation

CHECK ALL CONNECTIONS FOR LEAKS.
CONSULT THE LOCAL UTILITY COMPANY TO EXAMINE INSTALLATION FOR PROPRIETY AND SAFETY.

***⚠WARNING**

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.



Instructions for Installation (cont'd)

Water Piping

⚠ WARNING

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

If a water heater is installed in a closed water supply system; such as one having a back-flow preventer, check valve, water meter with a check valve, etc. in the cold water supply; means shall be provided to control thermal expansion. Contact the local utility or call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer on how to control this situation.

NOTE: To protect against untimely corrosion of hot and cold water fittings, it is strongly recommended that di-electric unions or couplings be installed on this water heater when connected to copper pipe.

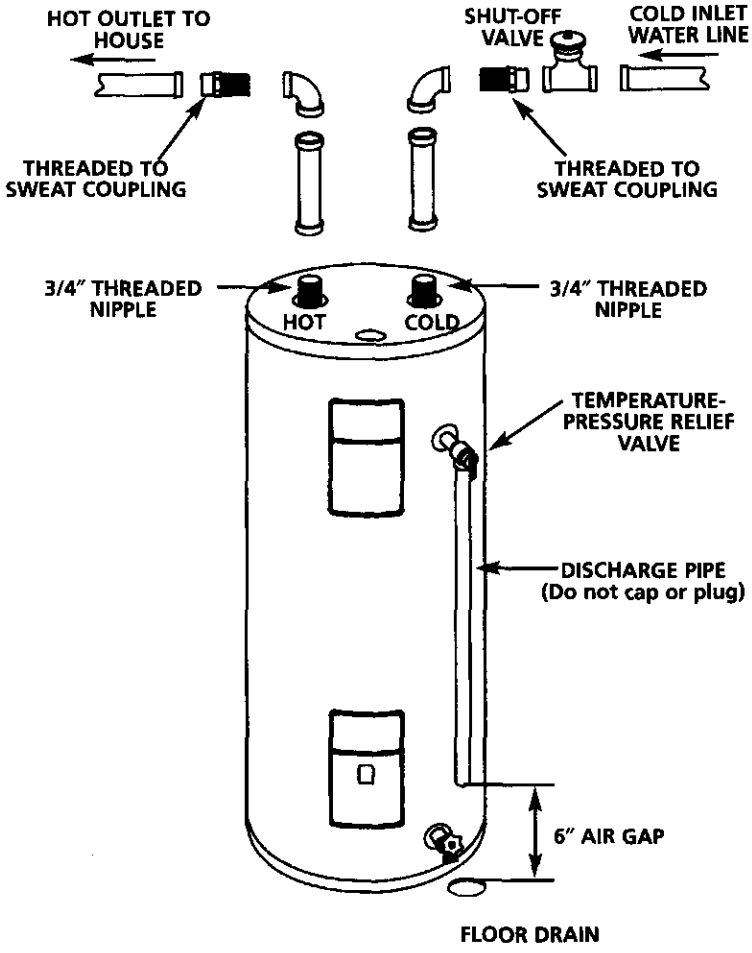
NOTE: The secondary anode rod/hot outlet nipple and the cold inlet nipple are packaged separately with the water heater. The above parts must be installed in the appropriate *HOT and COLD water connection locations.*

The illustration shows the attachment of the water piping to the water heater. The water heater is equipped with ¾ inch water connections.

NOTE: If using copper tubing, solder tubing to an adapter before attaching the adaptor to the cold water inlet connection. Do not solder the cold water supply line directly to the cold water inlet. It will harm the dip tube and damage the tank.

1. Look at the top cover of the water heater. The water outlet is marked hot. Connect the hot water pipe to the hot water outlet of the water heater.
2. Look at the top cover of the water heater. The cold water inlet is marked cold. Connect the cold water pipe to the cold water inlet of the water heater.

NOTE: Your water heater is super insulated to minimize heat loss from the tank. Further reduction in heat loss can be accomplished by insulating the hot water lines from the water heater.



Instructions for Installation (cont'd)

Temperature-Pressure Relief Valve

⚠ WARNING

At the time of manufacture this water heater was provided with a combination temperature-pressures relief valve certified by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials, as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, and the latest edition of ANSI Z21.22 and the code requirements of ASME. If replaced, the valve must meet the requirements of local codes, but not less than a combination temperature and pressure relief valve certified as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANSI Z21.22 by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials.

The valve must be marked with a maximum set pressure not to exceed the marked hydrostatic working pressure of the water heater (150 lbs./sq. in.) and a discharge capacity not less than the water heater input rate as shown on the model rating plate. (Electric heaters - watts divided by 1000 x 3415 equal BTU/Hr. rate.)

Your local jurisdictional authority, while mandating the use of a temperature-pressure relief valve complying with ANSI Z21.22 and ASME, may require a valve model different from the one furnished with the water heater.

Compliance with such local requirements must be satisfied by the installer or end user of the water heater with a locally prescribed temperature-pressure relief valve installed in the designated opening in the water heater in place of the factory furnished valve.

For safe operation of the water heater, the relief valve must not be removed from it's designated opening or plugged.

The temperature-pressure relief valve must be installed directly into the fitting of the water heater designated for the relief valve. Position the valve downward and provide tubing so that any discharge will exit only within 6 inches above, or at any distance below the structural floor. Be certain that no contact is made with any live electrical part. The discharge opening must not be blocked or reduced in size under any circumstances. Excessive length, over 30 feet, or use of more than four elbows can cause restriction and reduce the discharge capacity of the valve.

No valve or other obstruction is to be placed between the relief valve and the tank. Do not connect tubing directly to discharge drain unless a 6" air gap is provided. To prevent bodily injury, hazard to life, or property damage, the relief valve must be allowed to discharge water in quantities should circumstances demand. If the discharge pipe is not connected to a drain or other suitable means, the water flow may cause property damage.

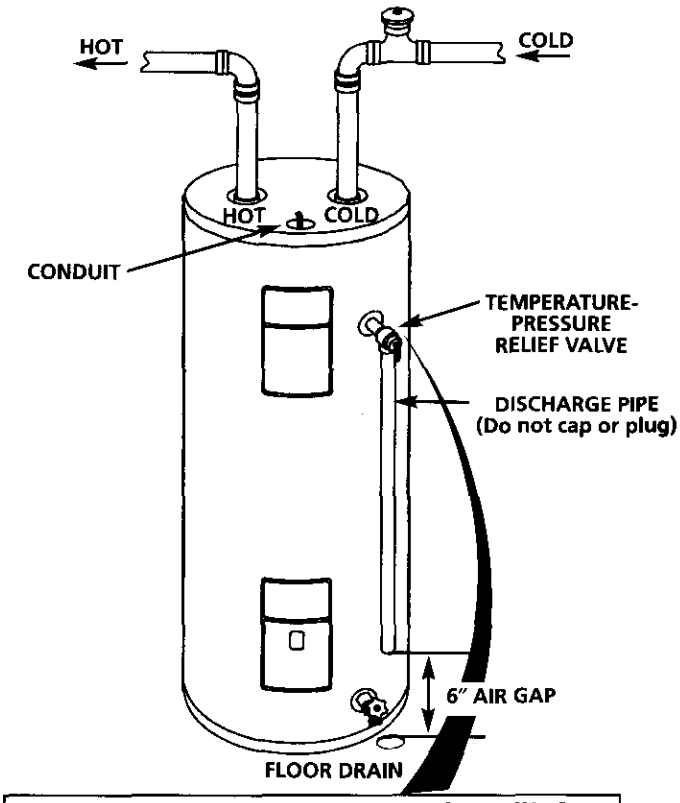
The Discharge Pipe:

- Must not be smaller in size than the outlet pipe size of the valve, or have any reducing couplings or other restrictions.
- Must not be plugged or blocked.
- Must be of material listed for hot water distribution.
- Must be installed so as to allow complete drainage of both the temperature-pressure relief valve, and the discharge pipe.
- Must terminate at an adequate drain.
- Must not have any valve between the relief valve and tank.

⚠ WARNING

The temperature-pressure relief valve must be manually operated at least once a year. Caution should be taken to ensure that (1) no one is in front of or around the outlet of the temperature-pressure relief valve discharge line, and (2) the water manually discharged will not cause any bodily injury or property damage because the water may be extremely hot.

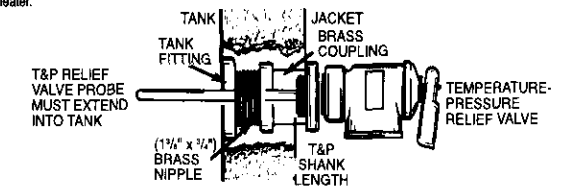
If after manually operating the valve, it fails to completely reset and continues to release water, immediately close the cold water inlet to the water heater, follow the draining instructions, and replace the temperature-pressure relief valve with a new one.



WARNING "RELIEF VALVE OPENING"

This water heater is provided with a combination Temperature-Pressure Relief Valve listed as complying with the standard for Relief Valves and Automatic Gas Shutoff Devices for Hot Water Supply Systems, ANS Z21.22 and the code requirements of ASME.

Your local jurisdictional authority, while mandating the use of a Temperature-Pressure Relief Valve complying with ANS Z21.22 and ASME, may require a valve model different from the one furnished with the water heater. Compliance with such local requirements must be satisfied by the installer or end user of the water heater with a locally prescribed Temperature-Pressure Relief Valve installed in the designated opening in the water heater.



- If a short shank (less than 2") temperature-pressure relief valve is to be installed (as shown), a nipple and coupling must be used.
- If a long shank (2" or longer) is to be installed, do not use the nipple and coupling.

"Install Temperature-Pressure protective equipment required by local codes, but not less than a combination Temperature-Pressure Relief Valve certified as meeting the requirements for Relief Valves and Automatic Gas Shutoff Devices for Hot-Water Supply Systems, ANS Z21.22 by a nationally recognized testing laboratory that maintains periodic inspection of production of listed equipment or materials. The valve must be oriented, provided with tubing, or otherwise installed so that discharge can exit only within 6 inches above, or at any distance below the structural floor, and cannot contact any live electrical part."

For safe operation of the water heater, the Relief Valve must not be removed or plugged.

See manual heading - "Temperature-Pressure Relief Valve" for installation and maintenance of Relief Valve, discharge pipe and other safety precautions.

Instructions for Installation (cont'd)

Filling the Water Heater

To fill the water heater with water:

1. Close the water heater drain valve by turning the handle to the right (clockwise). The drain valve is on the lower front of the water heater.
2. Open the cold water supply valve to the water heater. **NOTE: The cold water supply valve must be left open when the water heater is in use.**
3. To insure complete filling of the tank, allow air to exit by opening the nearest hot water faucet. Allow water to run until a constant flow is obtained. This will let air out of the water heater and the piping.

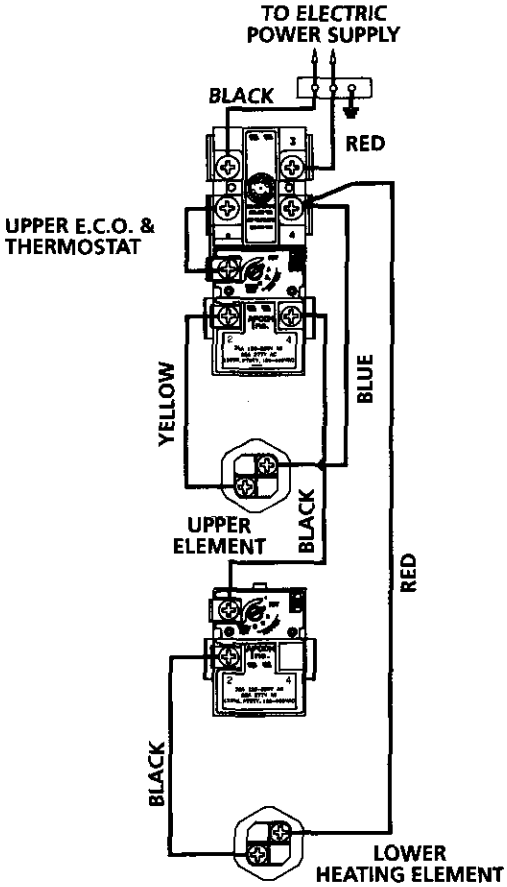
⚠ CAUTION

Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" power.

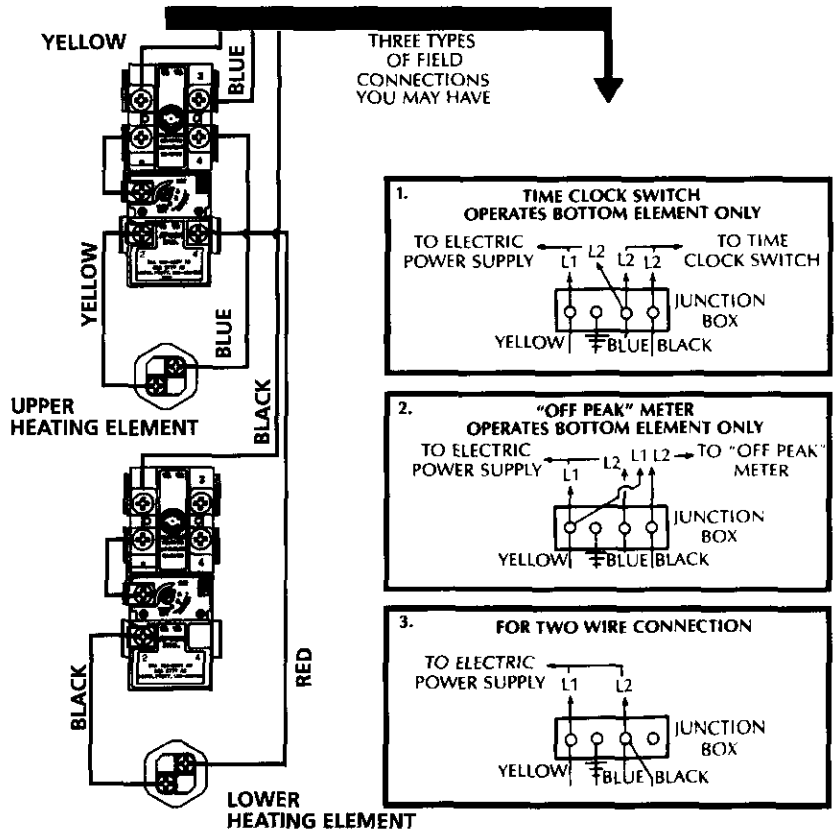
4. Check all new water piping for leaks. Repair as needed.

Wiring Diagrams

STANDARD WIRING FOR 2 WIRE LEAD WATER HEATERS NON-SIMULTANEOUS OPERATION 240 VOLT DOUBLE ELEMENT



WIRING FOR 3 WIRE LEAD WATER HEATERS NON-SIMULTANEOUS OPERATION 240 VOLT DOUBLE ELEMENT



Note: Some Lower Hi-Temp Limit switches may have 4 terminals. Use only the 2 terminals on left.

Instructions for Installation (cont'd)

Wiring

⚠ CAUTION

Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning on power.

You must provide all wiring of the proper size outside of the water heater. You must obey local codes and electric company requirements when you install this wiring.

If you are not familiar with electric codes and practices, or if you have any doubt in your ability to connect the wiring to this water heater, obtain the service of a competent electrician. Call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer.

⚠ WARNING

WATER HEATERS EQUIPPED FOR ONE VOLTAGE ONLY: This water heater is equipped for one type voltage only. Check the rating plate near the bottom access panel for the correct voltage. DO NOT use this water heater with any voltage other than the one shown on the model rating plate. Failure to use the correct voltage can cause problems which can result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE. If you have any questions or doubts consult your electric company.

⚠ CAUTION

If wiring from your fuse box or circuit breaker box was aluminum for your old water heater, replace it with copper wire. If you wish to reuse the existing aluminum wire, have the connection at the water heater made by a competent electrician. Call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer.

1. Provide a way to easily shut off the electric power when working on the water heater. This could be with a circuit breaker or fuse block in the entrance box or a separate disconnect switch.

2. Install and connect a circuit directly from the main fuse or circuit breaker box. This circuit must be the right size and have its own fuse or circuit breaker. Refer to the chart in the "Product Specifications" section for the correct size wire and fuse or circuit breaker.

3. If metal conduit is used for the grounding conductor:
   A. The grounding electrode conductor shall be of copper, aluminum, or copperclad aluminum. The material shall be of one continuous length without a splice or joint.
   B. Rigid metal conduit, intermediate metal conduit, or electrical metallic tubing may be used for the grounding means if conduit or tubing is terminated in fittings approved for grounding.
   C. Flexible metal conduit or 3 metallic tubing shall be permitted for grounding if all the following conditions are met:
      1. The length in any ground return path does not exceed 6 feet.
      2. The circuit conductors contained therein are protected by overcurrent devices rated at 20 amperes or less.
      3. The conduit or tubing is terminated in fittings approved for grounding.

   For complete grounding details and all allowable exceptions, refer to the latest edition of the National Electrical Code.

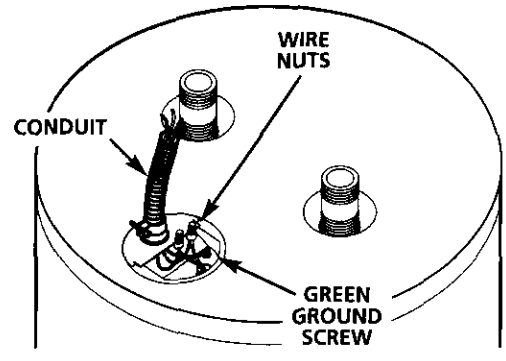
4. A standard ½" conduit opening has been made in the water heater junction box for the conduit connection.

5. Wiring Diagrams (See "Wiring Diagrams" Section) have been supplied showing the two most common types of connections between the water heater and the power supply. You can easily see which type connection you have by removing the junction box cover on top of the water heater.
   A. Two Wire Connection Diagrams: is the most common requiring you to simply connect red to red, black to black, and the ground wire to the green ground screw in the junction box of the water heater.
   B. Three Wire Connection Diagram: is used when you are connecting the water heater to power a supply that has a "Time Clock" or "Off Peak" Meter. To make these connections refer to block 1 or 2 in this wiring diagram for the type of system you have.
   NOTE: If you have purchased a three wire connection water heater but you are not on a "Time Clock" or "Off Peak" meter and have a standard two wire connection power supply, simply follow the connection diagram in block 3 of the Three Wire Connection Diagram.

6. Use wire nuts and connect the power supply wiring to the wires inside the water heater's junction.

7. The water heater must be electrically "grounded" by the installer. A green ground screw has been provided on the water heater's junction box. Connect ground wire to this location.

8. Replace the wiring junction cover using the screw provided.



Instructions for Installation (cont'd)

Installation Checklist

1. Whether or not the element conversion is made, the model rating plate must be marked. Using a hard point ink pen, check the appropriate block within the model rating plate, which is located adjacent to the lower access panel.

2. Is the fuse or circuit breaker size correct as shown in the chart in the "Product Specifications" section?

3. Are the wires from the circuit breaker or fuse service to the water heater's junction box on the correct wire size (gauge) as shown in the chart in the "Product Specifications" section?

4. Is the new temperature-pressure relief valve properly installed, and piped to an adequate drain? See "Temperature-Pressure Relief Valve" in the "Instructions for Installation" section.

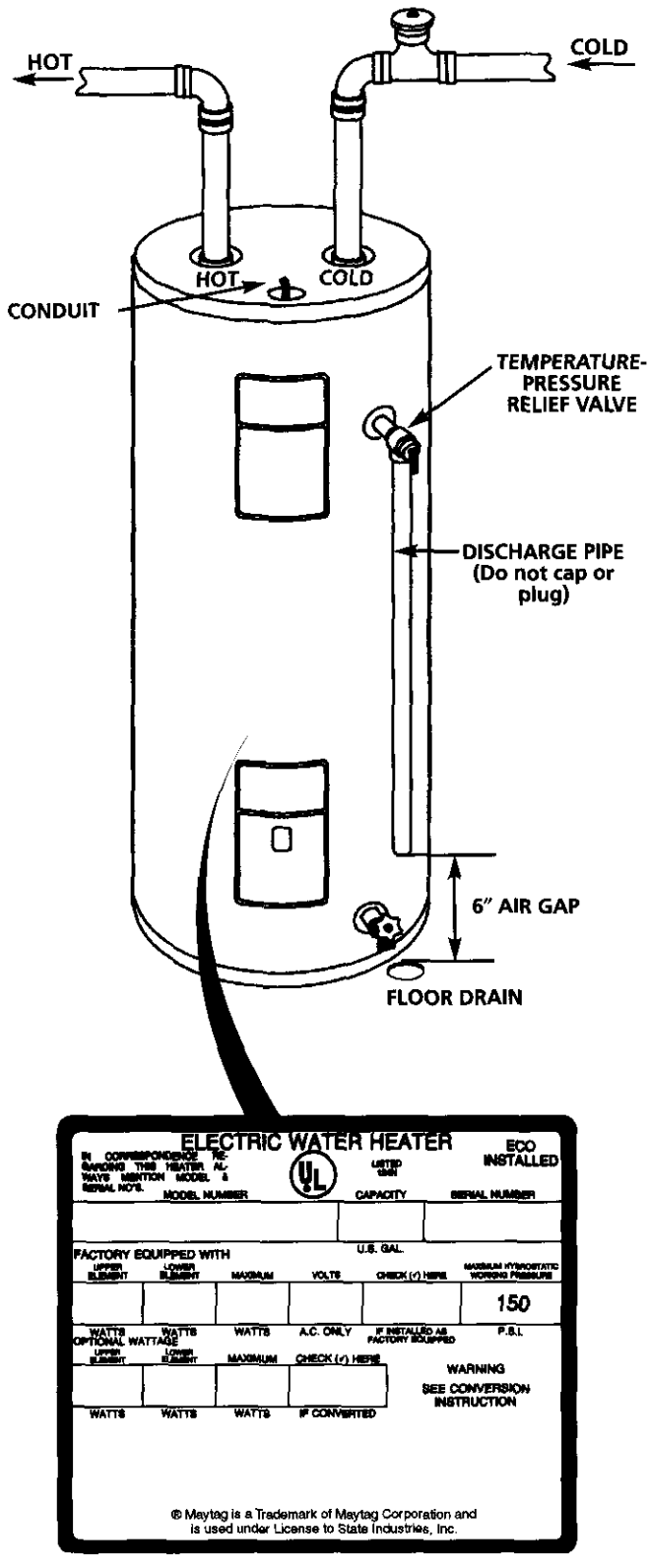
5. Is the water heater completely filled with water? See "Filling the Water Heater" instructions in the "Instructions for Installation" section.

6. Will a water leak damage anything? See "Locating the New Water Heater" in the "Instructions for Installation" section.

7. Are the cold and hot water lines connected to the water heater correctly? See "Water Piping" instructions in the "Instructions for Installation" section.

8. Is there adequate clearance for maintenance around the water heater?

9. Do you need to call your electric company to check your wiring?



MODEL RATING PLATE

Service and Maintenance

Temperature Regulation

⚠WARNING

HOTTER WATER CAN SCALD: Water heaters are intended to produce hot water. Water heated to a temperature which will satisfy clothes washing, dish washing, and other sanitizing needs can scald and permanently injure you upon contact. Some people are more likely to be permanently injured by hot water than others. These include the elderly, children, the infirm, or physically/mentally handicapped. If anyone using hot water in your home fits into one of these groups or if there is a local code or state law requiring a certain temperature water at the hot water tap, then you must take special precautions. In addition to using the lowest possible temperature setting that satisfies your hot water needs, a means such as a mixing valve, should be used at the hot water taps used by these people or at the water heater. Mixing valves are available at plumbing supply or hardware stores. Follow manufacturers instructions for installation of the valves. Before changing the factory setting on the thermostat, read the "Temperature Regulation" section in this manual.

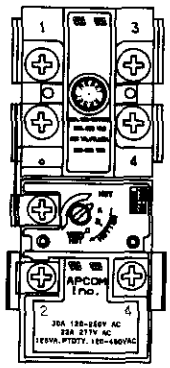
⚠WARNING

Never allow small children to use a hot water tap, or to draw their own bath water. Never leave a child or handicapped person unattended in a bathtub or shower.

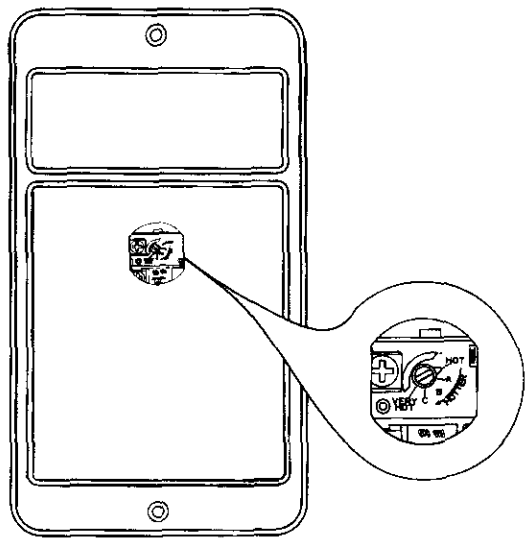
Thermostats

The thermostats of this water heater have been factory set at a position which approximates 120°F (Hot) to reduce the risk of scald injury.

The upper and lower thermostats are factory set at a position which approximates 120°F (Hot) and are adjustable if a different water temperature is desired. Read all warnings in this manual and on the water heater before proceeding.



UPPER THERMOSTAT ADJUSTABLE BEHIND UPPER ACCESS PANEL



LOWER THERMOSTAT ADJUSTABLE THROUGH OPENING IN LOWER ACCESS PANEL

Temperature Settings

HOT–Is a thermostat setting of approximately 120°F, which will supply hot water at the most economical temperatures.

A–Is a thermostat setting of approximately 130°F.

B–Is a thermostat setting of approximately 140°F.

C–Is a thermostat setting of approximately 150°F.

VERY HOT–Is a thermostat setting of approximately 160°F. It is recommended that the dial be set lower whenever possible.

NOTE: **Water temperature range of 120°–140°F recommended by most dishwasher manufacturers.**

Service and Maintenance (cont'd)

Thermostat Adjustments

If the upper thermostat is adjusted above the factory preset point of 120°F (Hot), it cannot be set higher than the lower thermostat setting. Read all warnings in the "Temperature Regulation" section before proceeding.

UPPER THERMOSTAT

1. Turn "OFF" the electric power to the water heater at the junction box.

⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

2. Take "OFF" the access panel.

3. The slotted adjustment (using a screwdriver) can be turned clockwise (↷) to increase the temperature setting or counter clockwise (↶) to decrease the temperature setting.

4. Replace the access panel.

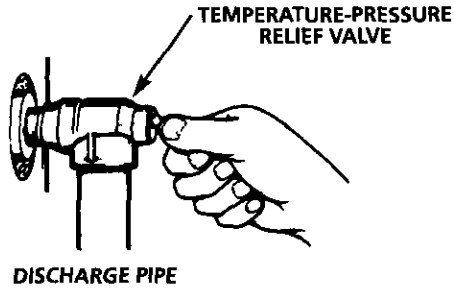
5. Turn "ON" the power supply.

LOWER THERMOSTAT

The slotted adjustment (using a screwdriver) can be turned clockwise (↷) to increase the temperature setting or counter clockwise (↶) to decrease the temperature setting.

Temperature-Pressure Relief Valve Operation

The temperature-pressure relief valve must be manually operated at least once a year.



⚠ WARNING

The temperature-pressure relief valve must be manually operated at least once a year. Caution should be taken to ensure that (1) no one is in front of or around the outlet of the temperature-pressure relief valve discharge line, and (2) the water manually discharged will not cause any property damage or bodily injury. The water may be extremely hot.
If after manually operating the valve, it fails to completely reset and continues to release water, immediately close the cold water inlet to the water heater, *follow the draining instructions, and* replace the temperature-pressure relief valve with a new one.

Failure to install and maintain a new properly listed temperature-pressure relief valve will release the manufacturer from any claim which might result from excessive temperature or pressure.

⚠ WARNING

If the temperature-pressure relief valve on the appliance weeps or discharges periodically, this may be due to thermal expansion. Your water heater may have a check valve installed in the water line or a water meter with a check valve. Call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer. Do not plug the temperature-pressure relief valve.

Service and Maintenance (cont'd)

Draining

The water heater should be drained if being shut down during freezing temperatures. Also periodic draining and cleaning of sediment from the tank may be necessary.

1. Before beginning turn "OFF" the electric power supply to the water heater.

⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

2. CLOSE the cold water inlet valve to the water heater.
3. OPEN a nearby hot water faucet and leave open to allow for draining.
4. Connect a hose to the drain valve and terminate to an adequate drain or outdoors.
5. OPEN the water heater drain valve to allow for tank draining.
   NOTE: If the water heater is going to be shut down and drained for an extended period, the drain valve should be left open with hose connected allowing water to terminate to an adequate drain.
6. Close the drain valve.
7. Follow "Filling the Water Heater" instructions in the "Instructions for Installation" section.
8. Turn "ON" power to the water heater.

⚠ CAUTION

Never use this water heater unless it is completely full water. To prevent damage to the tank and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" power.

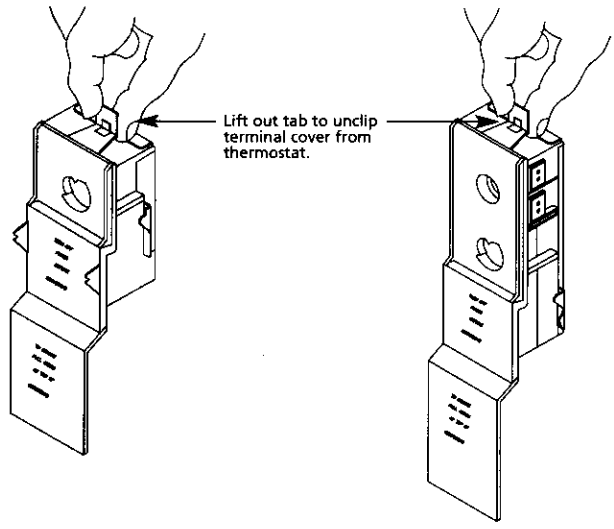
Thermostat Removal

1. Turn "OFF" the electrical power to the water heater at the junction box.

⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

2. Remove the access panel and the insulation block.
3. Lift out the tab as shown below to unclip the terminal cover from the thermostat. The terminal cover can now be removed from the thermostat.



LOWER THERMOSTAT WITHOUT HIGH LIMIT

UPPER OR LOWER THERMOSTAT WITH HIGH LIMIT

4. Remove the two wires attached to the thermostat.
5. Remove the thermostat from behind the thermostat bracket.
6. Disconnect wires from thermostat and slide out of the bracket.
7. Place the new lower thermostat in the bracket making sure it fits firmly against the tank.
8. Attach the wires to the new thermostat.

NOTE: Some of the terminals may require straight-in wiring through an eye-opening. If wires are now looped, recut and strip wire 3/8" to a straight length and insert.

Service and Maintenance (cont'd)

Thermostat Removal (cont'd)

9. Put plastic terminal cover back in place.

10. Replace the insulation block to cover the thermostat.

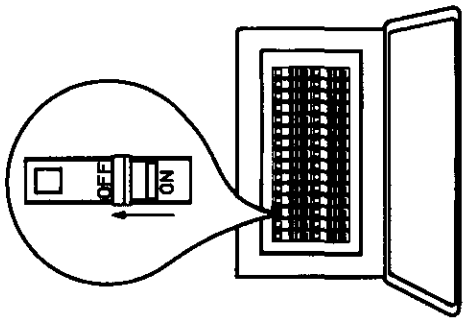
11. Replace access panel, then turn the electric power on.

Element Cleaning/ Replacement

NOTE: These instructions are written for element cleaning and element replacement for the lower element. If it is necessary to clean or replace the upper element, then repeat these instructions.

To remove the element from your tank in order to clean or replace it:

1. Before beginning turn "OFF" the electric power supply to the water heater.

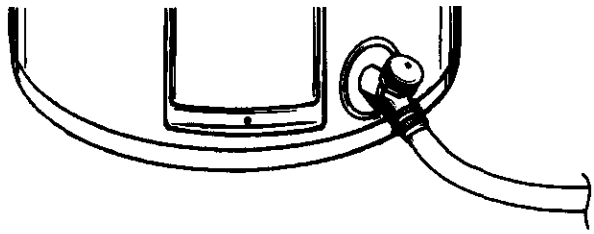


⚠WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

2. Turn off the water supply to the water heater at the water shutoff valve or water meter.

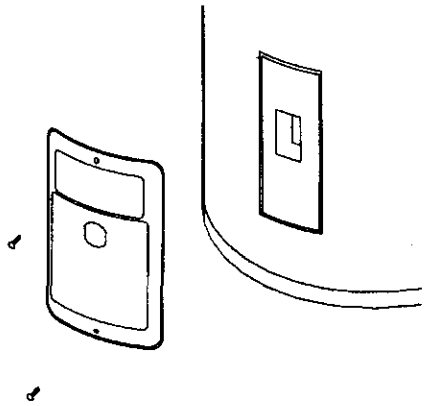
3. Attach a hose to the water heater drain valve and put the other end in a floor drain or outdoors. Open the water heater drain valve. Open a nearby hot water faucet which will relieve pressure in the water heater and speed draining.



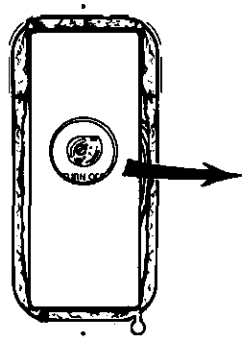
⚠WARNING

The water passing out of the drain valve may be extremely hot. To avoid being scalded, make sure all connections are tight and that the water flow is *directed away from any person.*

4. Remove the two screws securing the access panel, and remove panel.

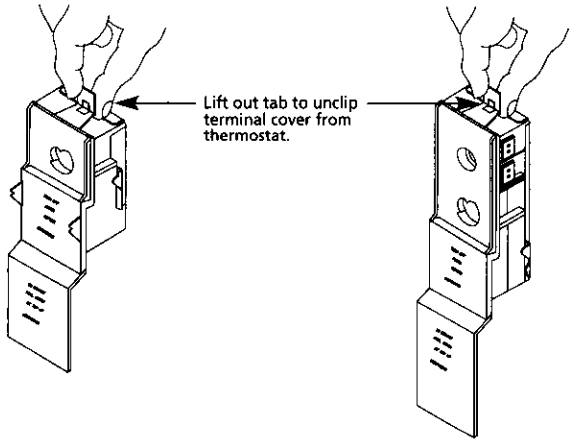


5. Remove the block of insulation to expose the terminal cover.



Service and Maintenance (cont'd)

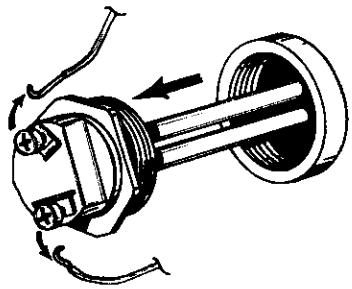
6. Lift out the tab as shown to unclip the terminal cover from the thermostat. The terminal cover can now be removed from the thermostat.



LOWER THERMOSTAT WITHOUT HIGH LIMIT

UPPER OR LOWER THERMOSTAT WITH HIGH LIMIT

7. Disconnect the two wires on the element and unscrew the old element from the tank.



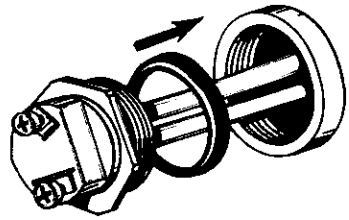
8. Clean the area around the element opening. Remove any sediment from or around the element opening and inside the tank.

9. If you are cleaning the element you have removed, do so by scraping or soaking in vinegar or a de-liming solution.

⚠ WARNING

Replacement elements must (1) be the same voltage and (2) no greater wattage than listed on the model rating plate affixed to the water heater.

10. A new gasket should be used in all cases to prevent a possible water leak. (See Element Gasket in the Repair Parts Chart). Place the new element gasket on the thread side of the cleaned or new element and screw into tank, securing tightly using an element wrench.



11. Close the water heater drain valve by turning the handle to the right (clockwise). The drain valve is on the lower front of the water heater.

12. Open the cold water supply valve to the water heater.

    NOTE: The cold water supply valve must be left open when the water heater is in use.

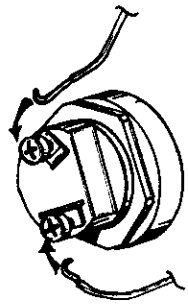
13. To insure complete filling of the tank, allow air to exit by opening the nearest hot water faucet. Allow water to run until a constant flow is obtained. This will let air out of the water heater and the piping.

⚠ CAUTION

Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. Water must flow from the hot water faucet before turning "ON" power.

14. Check element for water leaks. If leakage occurs, tighten element or repeat steps 2 and 3, remove element and reposition gasket. Then repeat steps 10 through 14.

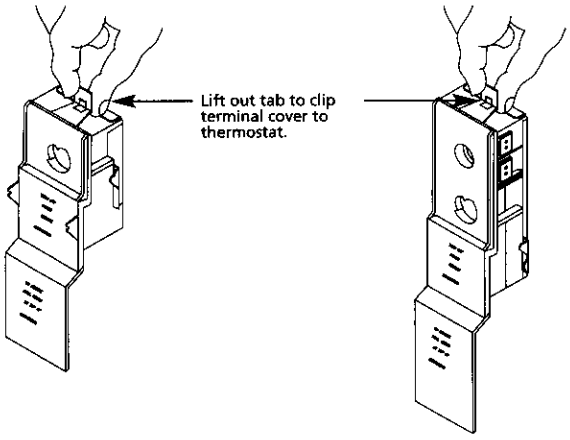
15. Reconnect the two wires to the element and then check to make sure the thermostat remains firmly against the surface of the tank.



Service and Maintenance (cont'd)

Element Cleaning/ Replacement (cont'd)

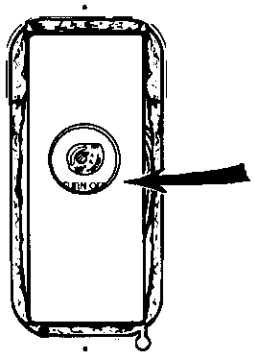
16. Replace the terminal cover on the thermostat making sure that the locking tabs on the terminal cover are in place.



LOWER THERMOSTAT WITHOUT HIGH LIMIT

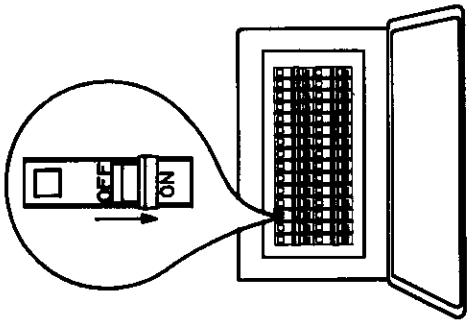
UPPER OR LOWER THERMOSTAT WITH HIGH LIMIT

17. Place the insulation block back in place so that it completely covers the thermostat and element.



18. Replace access panel.

19. Turn "ON" electric power to water heater.



Drain Valve Washer Replacement

NOTE: For replacement, use a 17/32" x 13/64" x 1/8" thick washer available at your nearest hardware store. For ordering a replacement washer, refer to the "Repair Parts" section.

1. Before beginning turn "OFF" the electrical power supply to the water heater.

⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

2. Follow "Draining" instructions in the "Service and Maintenance" section.

3. Turning counter clockwise, remove the hex cap below the screw handle.

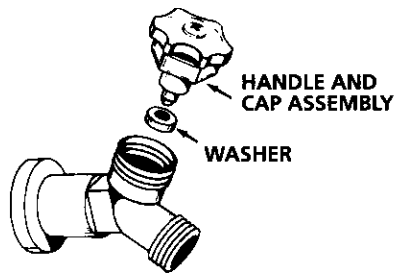
4. Remove the washer and put the new one in place.

5. Screw the handle and cap assembly back into the drain valve and retighten using a wrench. DO NOT OVER TIGHTEN.

6. Follow "Filling the Water Heater" instructions in the "Instructions for Installation" section.

7. Check for leaks.

8. Turn "ON" electric power to the water heater.



Service

Before calling for repair service, read the "Start Up Conditions" and "Operational Conditions" found in the "Troubleshooting" section of this manual.
If a condition persists or you are uncertain about the operation of the water heater, let a qualified person check it out.

Call a Maytag Service Specialist at 1-800-365-0024.

Troubleshooting

Start Up Conditions

THERMAL EXPANSION

Water supply systems may, because of such events as high line pressure, frequent cut-offs, the effects of water hammer among others, have installed devices such as pressure reducing valves, check valves, back flow preventers, etc...to control these types of problems. When these devices are not equipped with an internal by-pass, and no other measures are taken, the devices cause the water system to be closed. As water is heated, it expands (thermal expansion) and closed systems do not allow for the expansion of heated water.

The water within the water heater tank expands as it is heated and increases the pressure of the water system. If the relieving point of the water heater's temperature-pressure relief valve is reached, the valve will relieve the excess pressure. **The temperature-pressure relief valve is not intended for the constant relief of thermal expansion.** This is an unacceptable condition and must be corrected.

It is recommended that any devices installed which could create a closed system, have a by-pass and/or the system have an expansion tank to relieve the pressure built by thermal expansion in the water system. Expansion tanks are available for ordering through the Maytag Service Specialist. Contact the local water supplier and/or call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer for assistance in controlling these situations.

STRANGE SOUNDS

Possible noises due to expansion and contraction of some metal parts during periods of heat-up and cool-down do not represent harmful or dangerous conditions.

Operational Conditions

SMELLY WATER

In each glasslined water heater there is installed at least one anode rod (see parts section) for corrosion protection of the tank. Certain water conditions will cause a reaction between this rod and the water. The most common complaint associated with the anode rod is one of a "rotten egg smell". This odor is derived from hydrogen sulfide gas dissolved in the water. The smell is the result of four factors which must all be present for the odor to develop:

a. a concentration of sulfate in the supply water.
b. little or no dissolved oxygen in the water.
c. a sulfate reducing bacteria within the water heater. (This harmless bacteria is non-toxic to humans.)
d. an excess of active hydrogen in the tank. This is caused by the corrosion protective action of the anode.

Smelly water may be eliminated or reduced in some water heater models by replacing the anode(s) with one of less active material, and then chlorinating the water heater tank and all hot water lines. Call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer for further information concerning an Anode Replacement Kit #9001453 and this Chlorination Treatment.

If the smelly water persists after the anode replacement and chlorination treatment, we can only suggest that continuous chlorination and filtering conditioning equipment be considered to eliminate the water problem.

Do not remove the anode leaving the tank unprotected. By doing so, all warranty on the water heater tank is voided.

"AIR" IN HOT WATER FAUCETS

⚠ WARNING

HYDROGEN GAS: Hydrogen gas can be produced in a hot water system that has not been used for a long period of time (generally two weeks or more). Hydrogen gas is extremely flammable and explosive. To prevent the possibility of injury under these conditions, we recommend the hot water faucet be opened for several minutes at the kitchen sink before any electrical appliances which are connected to the hot water system are used (such as a dishwasher or washing machine). If hydrogen gas is present, there will probably be an unusual sound similar to air escaping through the pipe as the hot water faucet is opened. There must be no smoking or open flame near the faucet at the time it is open.

RUMBLING NOISE

In some water areas, scale or mineral deposits will build up on your heating elements. This buildup will cause a rumbling noise. Follow "Element Cleaning/Replacement" instructions to clean and replace the elements.

HIGH TEMPERATURE SHUT OFF SYSTEM

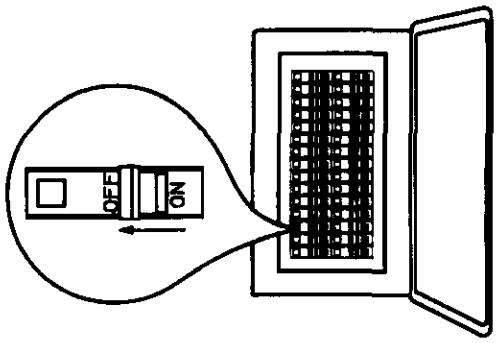
The water heater has a high limit shut off system with a reset button located on the thermostat.

Follow the resetting instructions which refer to the high limit behind the access panel.

NOTE: If your water heater is connected to an "OFF PEAK" clock, and uses the "3 wire lead" wiring diagram in the "Wiring Diagram" section, then the water heater will have a hi-limit on both the upper and lower thermostats. Follow the instructions to reset the hi-limit behind the upper and lower access panels.

Troubleshooting (cont'd)

1. Before beginning, turn "OFF" electrical power supply to the water heater.



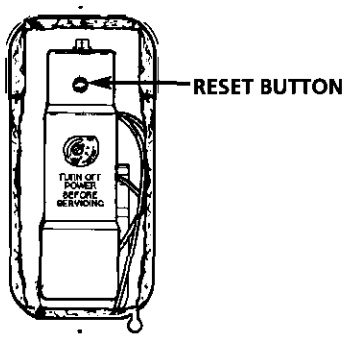
⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

2. Remove the two screws securing the access panel and remove panel.

3. Remove the insulation block to expose the opening.

4. Reset the high limit by pushing in the red button marked "RESET".



5. Replace the insulation block so that it completely covers the thermostat and element.

6. Replace the access panel.

7. Turn "ON" electric power to the water heater.

⚠ CAUTION

If the high limit must be reset again, call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer to find out why the high limit turned "OFF" the electric power.

NOT ENOUGH OR NO HOT WATER

1. In a new installation, the water heater may not be properly connected. Make sure the cold water supply valve is open. Review and check piping installation. Make sure that the cold water line is connected to the cold water inlet to the water heater and the hot water line to the hot water outlet on the water heater.

2. Make sure the electrical supply to your water heater is "ON".

3. Check for loose or blown fuses in your water heater circuit. Circuit breakers weaken with age and may not handle their rated load and should be replaced.

4. Make certain the disconnect switch, if used, is in the "ON" position.

5. Check to see the electric service to your house has not been interrupted. If this is the case, contact the electric company.

6. Are the thermostats set to the desired temperature? See "Temperature Regulation" section.

7. If you had experienced very hot water and now no hot water, the problem may be due to the high temperature shut off system. See "High Temperature Shut Off System" in the "Troubleshooting" section.

8. During very cold weather, the incoming water will also be colder and it will require a longer time to become heated.

9. The hot water usage may exceed the capacity of the water heater. If so, wait for water heater to recover after abnormal demand. Also examine pipes and faucets for possible water leaks.

10. If you can not determine the problem, then call the Maytag Service Department.

WATER IS TOO HOT

Adjust the thermostat to a lower setting. See the "Temperature Regulation" section.

Troubleshooting (cont'd)

Leakage Checkpoints

Use this guide to check a "Leaking" water heater. Many suspected "Leakers" are not leaking tanks. Often the source of the water can be found and corrected.

If you are not thoroughly familiar with electric codes, the water heater, and safety practices, contact your local utility or call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer to check the water heater.

Ⓐ *Condensation may be seen on pipes in humid weather or pipe connections may be leaking.

Ⓑ *The primary anode rod may be leaking.

Ⓒ Small amounts of water from temperature-pressure relief valve may be due to thermal expansion or high water pressure in your area.

Ⓓ *The temperature-pressure relief valve may be leaking at the tank fitting.

Ⓔ The elements may be leaking at the tank fitting.

⚠ WARNING

HAZARD OF ELECTRICAL SHOCK! Before removing any access panels or servicing the water heater, make sure the electrical supply to the water heater is turned "OFF". Failure to do this could result in DEATH, SERIOUS BODILY INJURY, OR PROPERTY DAMAGE.

Turn electrical power "OFF", remove access panels and fold back insulation. If leaking around elements, follow proper draining instructions and remove element. Reposition or replace gasket on element. Place element into opening and tighten securely. Then follow "Filling the Water Heater" instructions in the "Installation Instructions" section.

Ⓕ Water from drain valve may be due to the valve being opened slightly.

Ⓖ *The drain valve may be leaking at the tank fitting.

Ⓗ *Water in the water heater bottom or on the floor may be from condensation, loose connections or the temperature-pressure relief valve. DO NOT replace the water heater until a full inspection of all possible water sources is made and necessary corrective steps taken.

Leakage from other appliances, water lines, or ground seepage should also be checked.

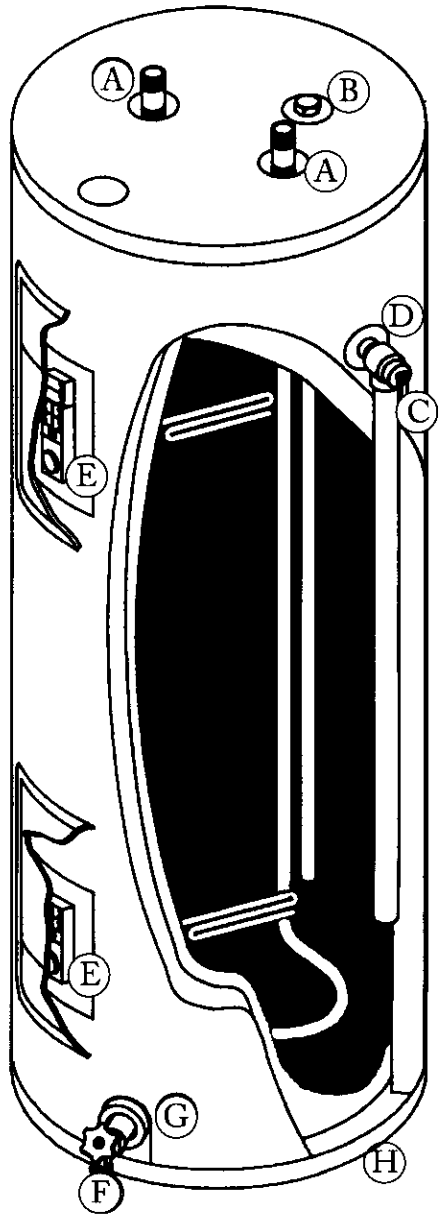
***NOTE: To check where threaded portion enters tank, insert cotton swab between jacket opening and fitting. If cotton is wet, follow "Draining" instructions in the "Service and Maintenance" section and then remove fitting. Put pipe dope or teflon tape on the threads and replace. Then follow "Filling the Water Heater" instructions in the "Instructions for Installation" section.**

⚠ CAUTION

Read this manual first, then before checking the water heater make sure the electric supply has been turned "OFF", and never turn the electric supply "ON" before the tank is completely full of water.

⚠ CAUTION

Never use this water heater unless it is completely full of water. To prevent damage to the tank and heating element, the tank must be filled with water. The water must flow from the hot water faucet before turning "ON" power.



Repair Parts List

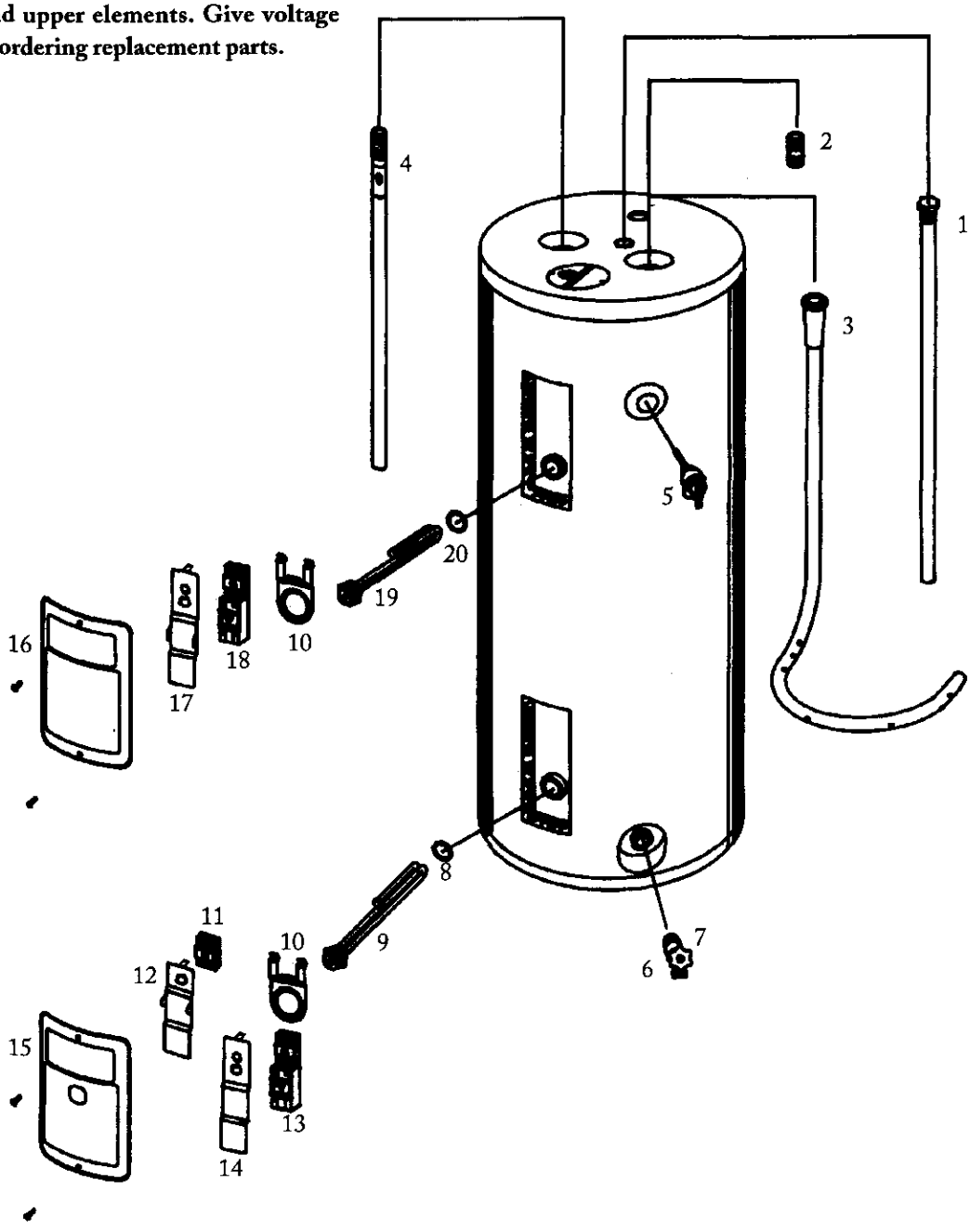
MAYTAG ELECTRIC WATER HEATERS
MODEL NUMBERS

HX402ERS	**40 GALLON**
HX522ERS	**50 GALLON**

NOTE:

LOWER ELEMENT and UPPER ELEMENT: These water heaters have 5500 watt lower and upper elements as standard. Order part no. 9000396 replacement element.

However, your specific model may be equipped with non-standard elements. Refer to model rating plate for wattage of non-standard lower and upper elements. Give voltage and element wattage when ordering replacement parts.



Repair Parts List (cont'd)

MAYTAG ELECTRIC WATER HEATERS
MODEL NUMBERS

HX402ERS 40 GALLON
HX522ERS 50 GALLON

KEY NO.	PART DESCRIPTION	MODEL NUMBERS HX402ERS PART NUMBERS	MODEL NUMBERS HX522ERS PART NUMBERS
1	Primary Anode	9001830	9001830
2	Nipple w/o Heat Trap	9003103	9003104
2	Nipple w/Heat Trap	9002988	9003101
3	Dip Tube	9002059	9002432
4	Secondary Anode and Nipple w/o Heat Trap	9003097	9003096
4	Secondary Anode and Nipple w/Heat Trap	9001792	9003102
5	Temperature-Pressure Relief Valve	9002403	9002403
6	Drain Valve	9001588	9001588
7	Drain Valve Washer (17/32" x 13/64" x 1/8" thick)*	9001584	9001584
8	Element Gasket (10 pack)	9000308	9000308
9	Lower Element	SEE NOTE ON PAGE 24	
10	Thermostat Bracket	9000309	9000309
11	2 Pole Thermostat (Two Wire Lead Models)†	9000507	9000507
12	Terminal Cover (Lower)	9002276	9002276
13	Lower Thermostat w/Hi Limit (Three Wire Lead Models)†	9000509	9000509
14	Terminal Cover (Lower Three Wire)	9002303	9002303
15	Lower Access Panel	9002612	9002612
16	Upper Access Panel	9000383	9000383
17	Terminal Cover (Upper)	9002438	9002438
18	Upper Thermostat w/Hi Limit	9001954	9001954
19	Upper Element	SEE NOTE ON PAGE 24	
20	Element Gasket (10 pack)	9000308	9000308
#	Manual	0002917890	

* Also available at most hardware stores.
† Refer to Wiring Diagram Section for verification.
# Not Illustrated

Now that you have purchased this water heater, should a need ever exist for repair parts or service, simply call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer. Be sure to provide all pertinent facts when you call or visit.

The model number of the water heater will be found on the model rating plate located above the access panel.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

Model Number
Serial Number
Part Description
Part Number (if available)
Voltage and Element Wattage

THIS IS A REPAIR PARTS LIST, NOT A PACKING LIST.

Repair Parts List (cont'd)

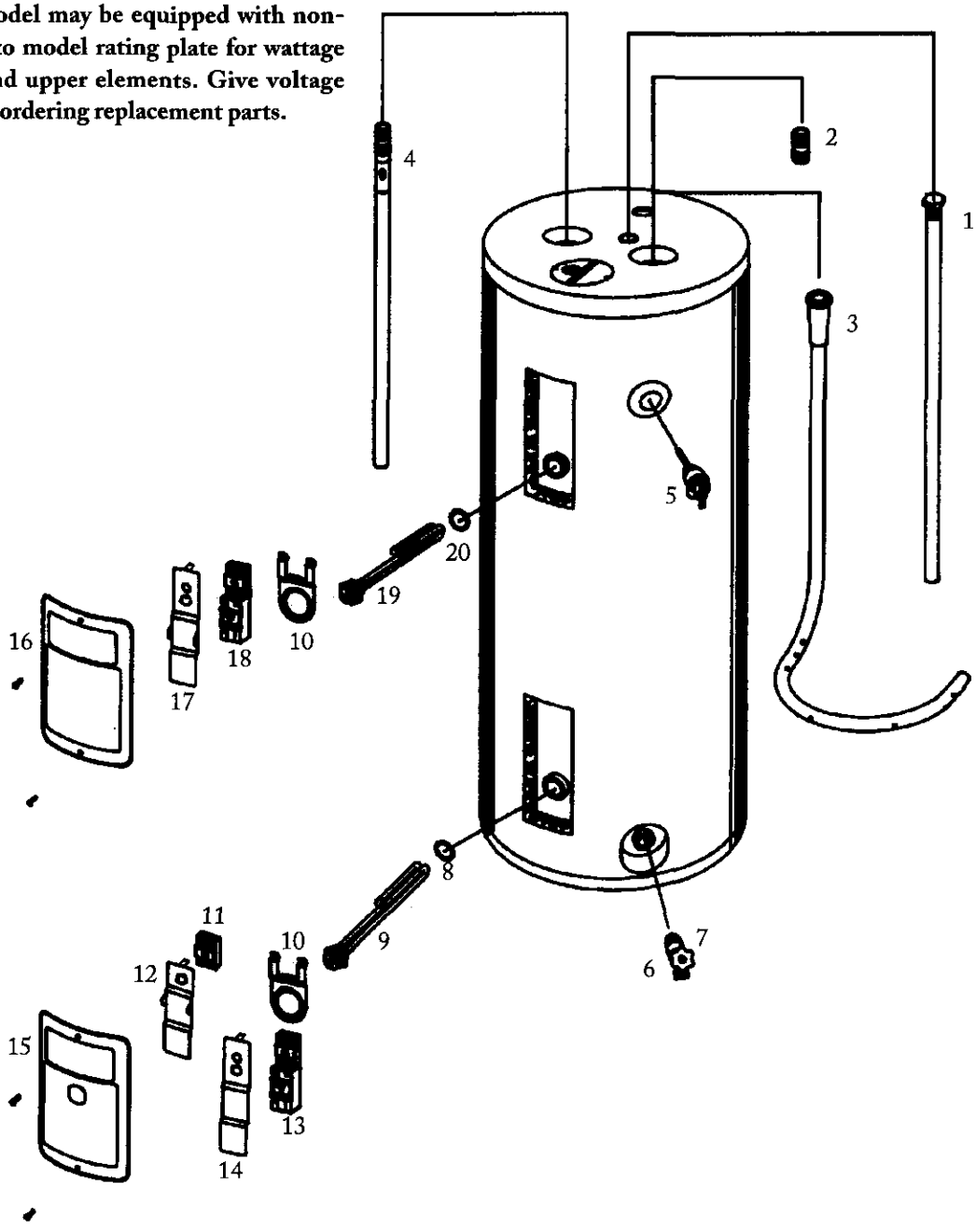
MAYTAG ELECTRIC WATER HEATERS
MODEL NUMBERS

HX302ERT	**30 GALLON**
HX402ERT	**40 GALLON**
HX522ERT	**50 GALLON**
HX662ERT	**66 GALLON**
HX822ERT	**80 GALLON**

NOTE:

LOWER ELEMENT and UPPER ELEMENT: **These water heaters have 5500 watt lower and upper elements as standard. Order part no. 9000396 replacement element.**

However, your specific model may be equipped with non-standard elements. Refer to model rating plate for wattage of non-standard lower and upper elements. Give voltage and element wattage when ordering replacement parts.



Repair Parts List (cont'd)

MAYTAG ELECTRIC WATER HEATERS
MODEL NUMBERS

HX302ERT	**30 GALLON**
HX402ERT	**40 GALLON**
HX522ERT	**50 GALLON**
HX662ERT	**66 GALLON**
HX822ERT	**80 GALLON**

KEY NO.	PART DESCRIPTION	MODEL NUMBERS				
		HX302ERT	HX402ERT	HX522ERT	HX622ERT	HX822ERT
		PART NUMBERS				
1	Primary Anode	9001830	9001672	9001672	9001672	9001672
2	Nipple w/o Heat Trap	9003104	9000399	9003103	9003103	9003104
2	Nipple w/Heat Trap	9003101	9002420	9002988	9002988	9003101
3	Dip Tube	9002432	9002058	9002416	9002058	9002058
4	Secondary Anode and Nipple w/o Heat Trap	9003096	9000947	9003097	9003097	9003096
4	Secondary Anode and Nipple w/Heat Trap	9003102	9002419	9001792	9001792	9003102
5	Temperature-Pressure Relief Valve	9002403	9002403	9002403	9002403	9002403
6	Drain Valve	9001588	9001588	9001588	9001588	9001588
7	Drain Valve Washer 17/32" x 13/64" x 1/8" thick)*	9001584	9001584	9001584	9001584	9001584
8	Element Gasket	9000308	9000308	9000308	9000308	9000308
9	Lower Element	SEE NOTE ON PAGE 26				
10	Thermostat Bracket	9000309	9000309	9000309	9000309	9000309
11	2 Pole Thermostat (Two Wire Lead Models)†	9000507	9000507	9000507	9000507	9000507
12	Terminal Cover (Lower)	9002276	9002276	9002276	9002276	9002276
13	Lower Thermostat w/Hi Limit (Three Wire Lead Models)†	9000509	9000509	9000509	9000509	9000509
14	Terminal Cover (Lower Three Wire)	9002303	9002303	9002303	9002303	9002303
15	Lower Access Panel	9002612	9002612	9002612	9002612	9002612
16	Upper Access Panel	9000383	9000383	9000383	9000383	9000383
17	Terminal Cover (Upper)	9002438	9002438	9002438	9002438	9002438
18	Upper Thermostat w/Hi Limit	9001954	9001954	9001954	9001954	9001954
19	Upper Element	SEE NOTE ON PAGE 26				
20	Element Gasket	9000308	9000308	9000308	9000308	9000308
#	Manual	0002917890				

* Also available at most hardware stores.
† Refer to Wiring Diagram Section for verification.
# Not Illustrated

Now that you have purchased this water heater, should a need ever exist for repair parts or service, simply call a Maytag Service Specialist at 1-800-365-0024 for an authorized servicer. Be sure to provide all pertinent facts when you call or visit.

The model number of the water heater will be found on the model rating plate located above the access panel.

WHEN ORDERING REPAIR PARTS, ALWAYS GIVE THE FOLLOWING INFORMATION:

Model Number
Serial Number
Part Description
Part Number (if available)
Voltage and Element Wattage

THIS IS A REPAIR PARTS LIST, NOT A PACKING LIST.

Repair Parts List (cont'd)

MAYTAG ELECTRIC WATER HEATERS

STATE / MAYTAG PART NUMBER CONVERSION KEY	
STATE	**MAYTAG**
9000308	66001053
9000309	66001054
9000396	66001087
9000399	66001112
9000383	66001199
9000507	66001201
9000509	66001202
9000947	66001217
9001453	66001068
9001584	66001021
9001588	66001246
9001608	66001012
9001609	66001011
9001672	66001111
9001792	66001110
9001830	66001109
9001954	66001254
9002058	66001067
9002059	66001052
9002276	66001268
9002303	66001272
9002403	66001010
9002416	66001066
9002419	66001022
9002420	66001033
9002432	66001065
9002438	66001064
9002612	66001411
9002769	66001105
9002988	66001108
9003096	66001373
9003097	66001412
9003101	66001374
9003102	66001413
9003103	66001414
9003104	66001375
ETC2X	66001013
ETC5X	66001014
0002917890-2	66001136

Notes

Notes

Notes

Warranty

FULL ONE YEAR WARRANTY

For One Year from the date of Original Retail Purchase, any part which fails in normal home use will be repaired or replaced free of charge.

If a leak occurs in the Tank, a new water heater of the closest capacity and quality then available, will be replaced free of charge.

The warranty of the replacement is the balance of the original water heater's Warranty.

LIMITED PARTS WARRANTY

After the First year and through the Sixth Year from the date of Original Retail Purchase, any Parts which fail due to a defect in materials or workmanship, will be replaced or repaired free of charge for the part itself, with the owner paying all other costs, including labor, mileage and transportation.

If the water heater is subjected to commercial, institutional, industrial or non-residential use, the above warranty coverage for parts that are proved to be defective in material or workmanship is effective for one year from the date of the Original Retail Purchase.

The warranty of the replacement is the balance of the original water heater's Warranty, or twelve months from the date of the part(s) purchase, whichever comes first.

The warranty is limited to the original owner of the water heater.

LIMITED TANK WARRANTY AGAINST LEAKS

After the First Year and through the Tenth Year from the date of Original Retail Purchase, if a leak occurs in the Tank, a new water heater of the closest capacity and quality then available, will be replaced free of charge for the water heater, with the owner paying all other costs, including labor, mileage and transportation.

If the water heater is subjected to commercial, institutional, industrial or non-residential use, the above warranty coverage for tanks that are proven to be defective in material or workmanship is effective for two years from the date of the Original Retail Purchase.

The warranty of the replacement is the balance of the original water heater's Warranty.

Please note: The Full and Limited Warranty applies only while this water heater is used in the United States of America.

The warranty is limited to the original owner of the water heater.

TO RECEIVE WARRANTY SERVICE

To locate an authorized service company in your area contact the Maytag Contractor Dealer from whom your appliance was purchased; or call a Maytag Service Specialist at the number listed below. Should you not receive satisfactory warranty service, please call or write:

Maytag Service Specialist
500 Lindahl Parkway
Ashland City, TN 37015-1299
U.S.A. 1-800-365-0024

When contacting a Maytag Service Specialist be sure to provide the Model and Serial Number of your appliance, The Name and Address of the Contractor Dealer from whom you purchased the appliance and the Date of Purchase.

MAYTAG WATER HEATERS ARE MANUFACTURED AND THIS WARRANTY PROVIDED BY STATE INDUSTRIES, INC., ASHLAND CITY, TN. MAYTAG IS A TRADEMARK OF MAYTAG CORPORATION AND IS USED UNDER LICENSE TO STATE INDUSTRIES, INC.